



Mining  
Form  
MR-1300

S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
BUREAU OF LAND AND WASTE MANAGEMENT  
DIVISION OF MINING AND SOLID WASTE MANAGEMENT  
2600 Bull Street, Columbia, SC 29201  
Telephone Number (803) 869-4261 Fax Number: (803) 896-4001

## APPLICATION FOR MODIFYING A MINE OPERATING PERMIT AND/OR RECLAMATION PLAN

Name of Mine: Pine Bluff Permit Number: I-001654

Name of Company: Palmetto Sand Company, Inc. County: Dorchester

Home Office Address: P.O. Box 1893 Summerville SC 29484-1893  
(Street or P.O. Box) (City) (State) (Zip)

Telephone: 843-563-5055

Mine Office Address: 566 Wire Road Ridgeville SC 29437  
(Street or P.O. Box) (City) (State) (Zip)

Telephone: 843-851-3111

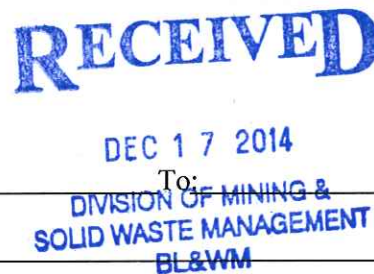
Location of Mine: Wire Road Ridgeville, SC  
(State or County Highway) (nearest town or city)

### REASONS FOR REQUESTING MODIFICATION

#### Change in the Land Use for Which Affected Land Will Be Reclaimed

Segment or Area: \_\_\_\_\_ From: \_\_\_\_\_ To: \_\_\_\_\_

Describe: \_\_\_\_\_



#### Change in Reclamation Practices:

Segment or Area: \_\_\_\_\_ From: \_\_\_\_\_ To: \_\_\_\_\_

Describe: \_\_\_\_\_

#### Change in Schedule of Reclamation

Segment or Area: \_\_\_\_\_ From: \_\_\_\_\_ To: \_\_\_\_\_

Describe: \_\_\_\_\_

#### Increase Land Area (attach new map)

Segment or Area: Pine Bluff East (Segments 27 - 30) From: 761.4 PA (411.9AA) To: 827.7 PA (438.2 AA)

Describe: 66.3 acres, designated Pine Bluff East, is being added to the permit area for the Pine Bluff Mine.

#### Change in the Land Use for Which Affected Land Will Be Reclaimed

Segment or Area: \_\_\_\_\_ From: \_\_\_\_\_ To: \_\_\_\_\_

Describe: \_\_\_\_\_

**Pine Bluff EAST**  
**Palmetto Sand Company, Inc.**

20. Section 48-20-40(16)(1) of the S.C. Mining Act requires a time schedule, including the anticipated years for completion of reclamation by segments. This time schedule should meet the requirements of Section 48-20-90 of the Mining Act.

**SCHEDULE FOR IMPLEMENTING CONSERVATION AND RECLAMATION PRACTICES**

Conservation & Reclamation Practices	Segment or Area	Planned		*Applied		Notes
		Amount	Year	Amount	Month/Year	
Mark 10 & 20 foot buffer from PL and wetlands	Access Road	900 lf	2015			
Locate access road wetland crossing location; Const wetland crossings	Wetlands A & B	0.49 ac	2015			
Mark 20 ft PL buffer & 50 ft wetland buffers	Seg 27	4,800 lf	2015			
Strip TS & extend and vegetate earthen berm	Seg 27	20 ac	2015-17			
Mine; route SW to pit and concurrently slope outer pit walls, as appropriate	Seg 27	20 ac	2015-18			
TS, backfill, fertilize and seed for final reclamation; Est Pond	Seg 27	20 ac	2015-18			Concurrent with mining
Mark 50 ft wetland buffers	Seg 28	1,800 lf	2015			
Strip TS & extend and vegetate earthen berm	Seg 28	3 ac	2018-19			
Mine; route SW to pit and concurrently slope outer pit walls, as appropriate	Seg 28	3 ac	2018-19			
TS, backfill, fertilize and seed for final reclamation; Est Pond	Seg 28	3 ac	2018-19			Concurrent with mining
Provide updated mine plan 90 days prior to land disturbances Future Reserves	Segs 29 & 30	4.5 ac				
Reclaim access roads - reduce size revegetate	Affected area	2.6 ac	End of Mining			
Remove fill from wetlands down to original elevations for access road crossing wetlands	Wetland A & B	0.49 ac	End of Mining			
Monitor reclamation and repair erosion damage for two growing seasons	Affected area					

AA – Affected Area BMPs – Best Management Practices Fert. – Fertilize LOM – Life of Mine PA – Permitted Area  
 PL – Property Line SB – Sediment Basin ST – Sediment Traps SW – Stormwater TS – Topsoil

\* Completed by the Department

**APPROVED BY**  
**SOUTH CAROLINA DEPARTMENT OF HEALTH**  
**AND ENVIRONMENTAL CONTROL**  
**DIVISION OF MINING AND SOLID WASTE MGT**  
 BY \_\_\_\_\_  
 TITLE \_\_\_\_\_  
 DATE APPROVED \_\_\_\_\_  
 PERMIT NO. \_\_\_\_\_

FORM MR-500

**RECEIVED**

DEC 17 2014

DIVISION OF MINING &  
 SOLID WASTE MANAGEMENT  
 BL&WM



**SUPPORT INFORMATION TO MINING FORM MR-1300**  
**APPLICATION TO MODIFY A MINE OPERATING PERMIT AND/OR RECLAMATION PLAN**

The information provided in this document is organized in the same manner as the SC Department of Health and Environmental Controls' application for a Mine Operating Permit – MR-400. This is not intended to be the official signed application (Form MR-1300 is the signed form for mine permit modifications) but only to serve as vehicle to present information in a logical and familiar format for review by SCDHEC staff.

**I. APPLICANT INFORMATION**

**Specific information on company, addresses, telephone numbers refer to Form MR-1300.**

**Name of company personnel and their title to be the contact for official business and**

**correspondence:** Hamer Thomas, President

**Ownership of land:**

A. Name of landowner(s): Wireglo, LLC

**RECEIVED**

DEC 17 2014

DIVISION OF MINING &  
SOLID WASTE MANAGEMENT  
BL&WM

Landowner's Address: P.O. Box 2025 Mt. Pleasant  
Street and PO Box City

SC 29465 843-884-9394  
State Zip Code Telephone Number

B. Date lease became effective : October 28, 2014

**II. GENERAL CHARACTERISTICS OF MINE:**

**1. Material(s) to be mined:** Sand no change from issued permit.

**2. Mining Method**

**A. List equipment to be used for mining and provide a brief description as to how the mine will be operated.**

Equipment and method for mining will not change.

**B. Will there be a process plant located at the mine site within the boundary of the permitted area? If so, please provide a brief description of the plant equipment and function of the plant.**

Not applicable to this modification – no change from issued permit.

**3. Do you anticipate blasting as part of the mining operation?**        Yes   X   No

Not applicable to this modification – no change from issued permit.

**4. Has this site been mined in the past? If so, please indicate the present condition of the land.**

No. The current land use is upland hardwoods, planted pine forest and wetlands. Wetlands will be left undisturbed with exception of 0.49 acre that will be temporarily filled for access roads.

**5. What is the expected maximum depth of this mine? Provide any addition information about the final depth of the mine that would be useful to the Department. (Ex. Final depth of pit will be level to adjacent road, elevation above Mean Sea Level (MSL)).**

Not applicable to this modification – no change from issued permit.

### **III. DETERMINATION OF PERMITTED ACREAGE, AFFECTED ACREAGE AND RECLAMATION BOND**

**1. Total acres for which modification is being requested:**

Palmetto Sand is adding 66.3 acres of permitted land to the Pine Bluff Mine Permit.

**2. Acres in the mine permit will be change as described below:**

Acres changed by modification: Affected 26.3 Buffer 35.4 Fut. Res. 4.6 Permitted 66.3

Current Acres under Permit: Affected 411.9 Buffer 349.5 Fut. Res. 0.0 Permitted 761.4

New Permit Acres w/mod: Affected 438.2 Buffer 348.9 Fut. Res. 4.6 Permitted 827.7

**3. Check acreage to be bonded:**

Current bond is a single bond in the amount of \$65,000.

**Applicant may submit a reclamation cost estimate for mines that will affect greater than 25 acres. Estimate should be based upon requirements in Regulation 89-20 B.**

This bond should be adequate to cover reclamation cost. Palmetto Sand has an excellent record of conducting concurrent reclamation where feasible. Currently, mining has been completed in segments 1, 2, 3, 4, 5, 9 & 13. Pond banks are established and water within the ponds complies with the required depths. Reclamation on these segments is approximately 70 acres. The per acre bonding rate is estimate to be in the \$700 to \$1,000/ acre range for the remaining segments; however, the cost and effort for reclamation will continue to be relatively inexpensive and simple primarily due to the high water table.

**4. Will this operation be covered by a blanket bond? If so, please list your company's other permitted mining operations in South Carolina giving mine names, permit numbers and state the present reclamation bond amount on file with this Department.**

Not applicable to this modification – no change from issued permit.

**5. Number of years for which this permit is requested. The requested number of years the permit is requested should coincide with the Schedule of Reclamation as proposed by the applicant in the RECLAMATION PLAN, Form MR-500. No change at this time \_\_\_\_\_ years**

### **IV. PROTECTION OF NATURAL RESOURCES\***

**1. Will there be a waste water treatment system at your mine site? \_\_\_\_\_ Yes \_\_\_\_\_ x \_\_\_\_\_ No**

All stormwater discharges will be routed in to existing pits and routed through existing NPDES permitted outfall 001.



**2. Will there be a point source discharge from your plant or mine requiring an NPDES Permit? If no, provide information as to how stormwater and groundwater will be managed.**

☒ Yes ☐ No

All process wastewater and stormwater discharges are being routed into existing pit. Pine Bluff can discharge from 001 Outfall.

**3. Will there be air contaminant emissions from your plant or mine requiring an Air Quality Permit?**

☐ Yes ☒ No No change from originally issued permit

**4. Do you anticipate pumping of groundwater? If yes, describe.** ☒ Yes ☐ No

Groundwater table is approximately 3-4 feet below ground surface. The active pit will be dewatered with a series of rim ditches routing groundwater and stormwater to central sump for that mine segment. The water collected in the sump will be pumped to a previous mined segment and held at a level above normal groundwater levels to promote infiltration back into the surrounding ground. By "surcharging" the groundwater in this manner it will significantly minimize the groundwater drawdown to the surrounding areas. This method of managing the groundwater has been successfully used in previous mining at the Pine Bluff Mine.

**5. Will jurisdictional wetlands be affected, filled or altered in any fashion that will require a Section 404 Dredge and Fill Permit?** ☐ Yes ☒ No

Wetland delineations have been conducted by a qualified wetland consultant and reviewed by the US Army Corps of Engineers and a jurisdictional determination issued. The wetlands located in Pine Bluff EAST have been determined to be jurisdictional wetlands.

Palmetto Sand Company will be seeking an exemption from the US Army Corps of Engineers to temporarily place fill in 0.49 acre of wetlands to construct necessary access roads to the property and uplands isolated by surrounding wetlands and property boundaries. Access roads crossing wetlands will minimize fill in wetlands to the degree practical but maintain working safe conditions. A maximum of 0.49 acres of wetlands will be temporarily impacted by three access road crossings in the permitted area. Once mining and reclamation is completed on the mined areas, the fill placed in the wetlands will be removed down to original elevations and native wetland vegetation planted.

**6. Are there any known cultural or historic sites located within the proposed area to be permitted?**

☐ Yes ☒ No No change from issued permit.

**7. Will any part of the permitted area be used as a solid waste disposal site? If no, describe how waste, trash, scrap metal material, garbage will be handled.** ☐ Yes ☒ No Not applicable to this

modification – no change from issued permit.

**8. Describe the wildlife or freshwater, estuarine or marine fisheries in the area of the mining operation. Also provide information about any ponds and/or streams that may be located in the proposed permitted area.**

Not applicable to this modification – no change from issued permit.

**9. State the land cover and land uses on the permitted land area and contiguous tracts of land to the permitted land area.**

Not applicable to this modification – no change from issued permit.

**10. Describe measures to be taken to insure against (1) substantial deposits of sediment in neighboring streams, rivers lakes or ponds; (2) landslides; (3) acid water formation and discharge. Attach any supporting documents (engineering designs, calculations, sediment & erosion control plan, setbacks, geotechnical information, acid prediction test etc.) to this application.**

(1) Sediment will continue to be controlled by routing stormwater into the pit. Only when and where necessary will treated water, water treatment by settling, be discharged through the permitted NPDES outfall. (2) Limited depth of mining minimizes potential for landslides. (3) Not applicable to this geology

## **V. SAFETY**

**1. Describe methods to be used during the time the mine operating permit is active to prevent physical hazards to persons and to any neighboring dwelling, house, school, church, hospital, commercial or industrial building or public road. If applicable, provide the zoning designation for the property to permitted.**

Due to the need to minimize impacts to jurisdictional wetlands, the access road into the mine from Wire Road will maintain a 10 foot undisturbed buffer from adjacent property for the first 500 feet and then transitions to a 20 foot undisturbed buffer. Mine segments 28 & 29 will maintain a 50 foot undisturbed buffer to adjacent property. Mine segment 27 will maintain a 20 foot undisturbed buffer from adjacent property.

**2. Describe methods to be used to prevent an adverse effect on the purposes of a publicly- owned park, publicly-owned forest, or publicly-owned recreation area. If any of these facilities are within one (1) mile of the proposed affected property, please locate on mine location map and the submitted U.S.G.S topographic map for this application.**

The Pine Bluff East will not be located within one mile of a publicly owned forest, park or recreational area.

**3. Describe measures to be taken for screening the operation from view from public highways, public parks or residential areas.**

Existing vegetation is sufficient to visually screen Pine Bluff East from Wire Road or from the nearest properties with homes.

Adjacent Land Owners for Pine Bluff East Mine Permit Modification

LandCo Developers, Inc. & Wire Acres LLC

c/o Lynn McCants

P.O. Box 2025

Mt. Pleasant, SC 29465

116-00-00-003.000

(Tract of Land Pine Bluff Mine was located on)

Roberts, Shirley W. & Micah L. Warren

262 Rice Road

Ridgeville, SC 29472

117-00-00-019.000

(Located between permit area and Wire Road.)

Blanton Group, LLC

4199 Highway 165

Younges Island, SC 29449

117-00-00-001.000

(NWR Expansion Lessor)

Wireglo, LLC

P.O. Box 2025

Mt. Pleasant, SC 29465

117-00-00-029.000

(Located on same tract of land being permitted by Palmetto Sand Company. 37.8 acres located between proposed mine permit area and Edisto River.)

Glover Real Estate LLC

P.O. Box 3833

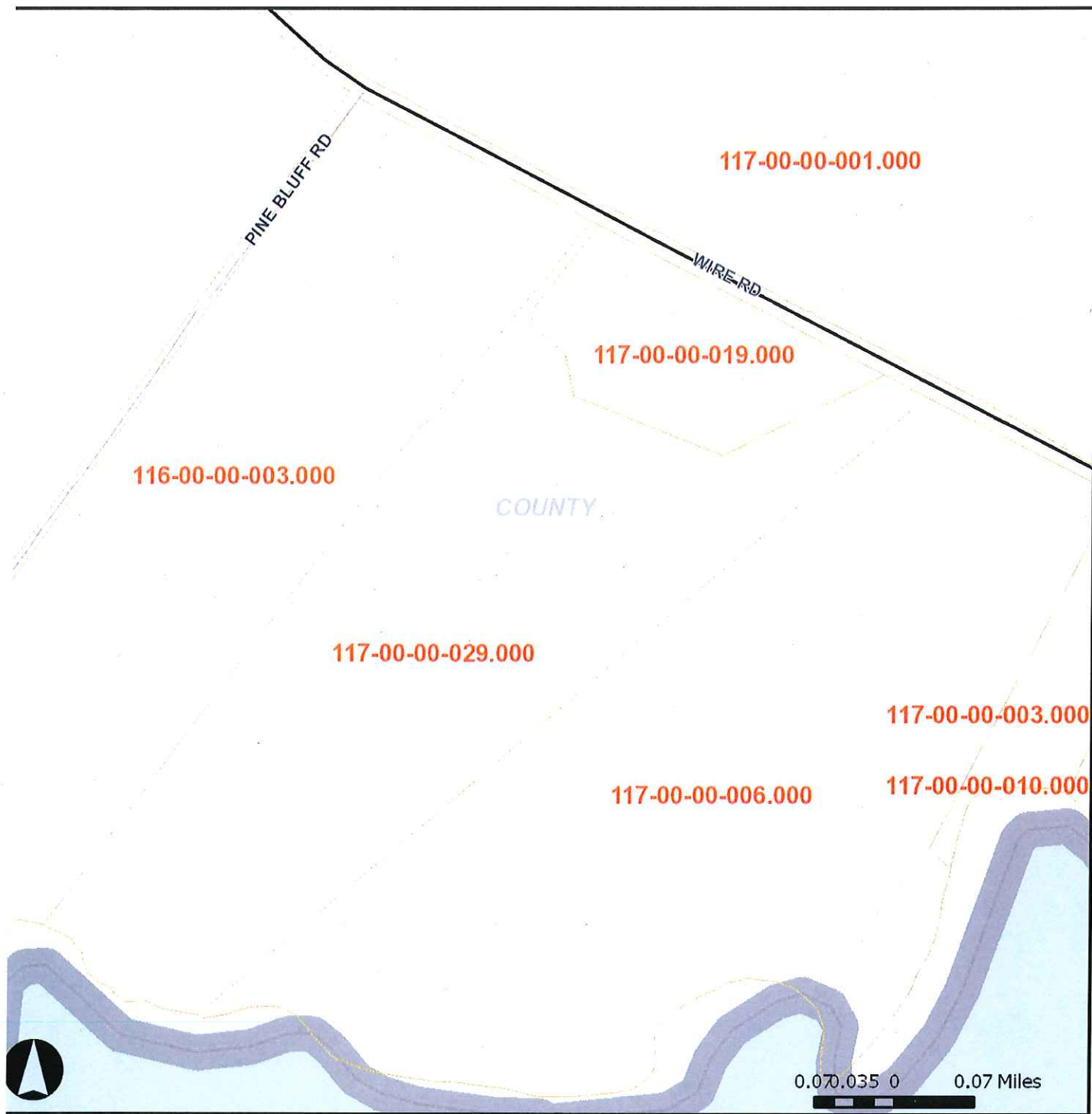
Bluffton, SC 29910-3823

117-00-00-006.000

(Adjacent to East Property Line)



# Parcel Map



Area Counties



## Orchester County GIS

### OrthBase

World Imagery: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

World Imagery: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Low Resolution 15m Imagery: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

High Resolution 60cm Imagery: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

High Resolution 30cm Imagery: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community